

## ABSTRACT

A system and associated method of converting audio data from a television signal into textual data for display as a closed caption on an display device is provided. The audio data is decoded and audio speech signals are filtered from the audio data. The audio  
5 speech signals are parsed into phonemes in accordance by a speech recognition module. The parsed phonemes are grouped into words and sentences responsive to a database of words corresponding to the grouped phonemes. The words are converted into text data which is formatted for presentation on the display device as closed captioned textual data.

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